

FED. SUP CLASS
2620

THE TIRE SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS
OF SPECIFICATION MIL-T-5041 EXCEPT AS SPECIFIED HEREIN

MS PART NO.	SIZE	PLY RATING 1/	STATIC LOAD RATING LBS.	INFL. PRESS. PSI. RATED	BURST PRESS. PSI MIN.	BEAD WIDTH IN. MAX.	WEIGHT LBS. MAX.	STATIC UNBAL. OZ-IN. MAX.	TREAD 3/	MOLD SKID DEPTH MIN.	DEFLEC + 3% - 4%
MS26563-1	40x14	26TL	30,500	175	2/700	3.10	133	17	Rib	.30	32Z
MS26563-2	40x14	28TL	33,500	200	2/800	3.10	133	17	Rib	.30	32Z

- 1/ TL - Tubeless
- 2/ New Tire
- 3/ At least three, but no more than seven continuous circumferential Ribs

TIRE DATA (INCH)

CENTER LINE DIAMETER		CROSS SECTION WIDTH		SHOULDER DIAMETER	SHOULDER WIDTH
MIN	MAX	MIN	MAX	MAX	MAX
38.85	38.90	13.25	14.00	35.10	12.00

RIM DATA (INCH)

WIDTH BETWEEN FLANGES	MIN FLANGE WIDTH	LEDGE DIAMETER	LEDGE WIDTH	FLANGE HEIGHT	HEEL RADIUS	FLANGE RADIUS	FLANGE EDGE RADIUS
11.0	1.125	16.0	3.10	1.625	0.366	0.812	0.094

THE TIRE COVERED BY THIS DRAWING SHALL BE SUITABLE FOR USE AND PROVIDE REASONABLE SERVICE LIFE DURING ALL NORMAL OPERATIONS AT TAKE-OFF SPEEDS OF NOT MORE THAN 200 MPH AND LANDING SPEEDS OF NOT MORE THAN 185 MPH.

THE TIRE SHALL WITHSTAND WITHOUT FAILURE THE FOLLOWING TESTS:

- (1) DYNAMIC TEST - THE TIRE SHALL SATISFACTORILY WITHSTAND 50 CYCLES OF TEST "A" FOLLOWED BY 100 CYCLES OF TEST "B" WITHOUT EVIDENCE OF FAILURE.

(C) TEST A - THE TIRE SHALL BE LANDED AGAINST A FLYWHEEL ROTATING AT A PERIPHERAL SPEED OF 200 MPH (174 KNOTS). THE FLYWHEEL SPEED SHALL THEN BE DECREASED UNTIL A ROLL DISTANCE OF 9000 FEET HAS BEEN COVERED, AT WHICH TIME THE TIRE SHALL BE UNLANDED. THE AVERAGE DECELERATION RATE SHALL BE 4.5 FT/SEC/SEC BETWEEN 200 AND 100 MPH, AND 6.0 FT/SEC/SEC FROM 100 MPH TO 0, AT WHICH TIME THE TIRE SHALL BE UNLANDED. THE TIRE LOAD SHALL BE INCREASED FROM ZERO TO 6000 LBS IN 2 TO 4 SECONDS AFTER LANDING, AND THEN FURTHER INCREASED LINEARLY WITH TIME TO THE RATED LOAD IN 56 TO 57 SECONDS AFTER LANDING. THE LOAD SHALL THEN BE MAINTAINED AT RATED UNTIL THE TIRE IS UNLANDED. THE TIRE DEFLECTION AT RATED LOAD ON FLYWHEEL SHALL BE THE SAME AS OBTAINED WITH THE RATED LOAD AND INFLATION PRESSURE ON A FLAT PLATE.

TEST B - THE TEST CYCLE SHALL BE IDENTICAL TO THE LOW SPEED (90 TO 0 MPH) DYNAMIC TEST DESCRIBED IN SPECIFICATION MIL-T-5041. THE TIRE DEFLECTION AT RATED LOD ON THE FLYWHEEL SHALL BE THE SAME AS OBTAINED WITH THE RATED LOAD AND INFLATION PRESSURE ON A FLAT PLATE.

- (2) BURST TEST - FOLLOWING THE ABOVE DYNAMIC TESTS THE SAME TIRE SHALL BE SUBJECTED TO A HYDROSTATIC BURST TEST. THE PRESSURE SHALL BE INCREASED UNTIL THE TIRE FAILS AND THE FAILING PRESSURE REPORTED IN THE QUALIFICATION TEST REPORT.

AIR RETENTION - THE TUBELESS TIRE SHALL BE INFLATED TO A PRESSURE OF 280 PSI FOR THE 26PR OR 320 PSI FOR THE 28 PR AND ALLOWED TO STAND FOR A PERIOD OF 24 HOURS AT WHICH TIME THE PRESSURE DROP DUE TO GROWTH SHALL BE REPLACED. THE TIRE SHALL THEN STAND FOR AN ADDITIONAL 24 HOURS AT WHICH TIME THE PRESSURE SHALL BE MEASURED AND THE TIRE INSPECTED. THE AIR PRESSURE LOSS SHALL NOT EXCEED 5 PER CENT AND THE TIRE SHALL NOT REVEAL ANY APPEARANCE AND PERFORMANCE DEFECTS SUCH AS SIDEMALL BLISTERS, TREAD SEPARATION, ETC.

QUALIFICATION TEST REPORT - THE QUALIFICATION TEST REPORT SHALL LIST THE RESULTS OF ALL QUALIFICATION TESTS AND THE CONSTRUCTION DETAILS OF THE QUALIFICATION TEST SAMPLE IN THE GENERAL FORM SHOWN IN FIGURE 2 OF SPECIFICATION MIL-T-5041 WITH DIMENSIONS LISTED AT RATED INFLATION. IN ADDITION, IT SHALL ALSO LIST THE ACTUAL TIRE DIMENSIONS WHEN THE TIRE IS INFLATED TO 280 PSI FOR THE 26 PR OR 320 PSI FOR THE 28 PR. TWO (2) COPIES OF THE QUALIFICATION TEST REPORT, TOGETHER WITH THE DATA AND MATERIAL SPECIFIED ABOVE AND IN MIL-T-5041, SHALL BE SUBMITTED TO THE NAVAL AIR SYSTEMS COMMAND, WASHINGTON, DC 20361, ATTENTION: AIR 53032.

NOTES.

- 1. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BIDS, OR REQUEST FOR PROPOSAL EXCEPT THAT REFERENCE ADOPTED INDUSTRY STANDARDS SHALL GIVE THE DATE OF THE ISSUE ADOPTED.
- 2. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

(C) DENOTES CHANGES

P.A. NAVY - AS Other Cust	TITLE TIRE, PNEUMATIC, AIRCRAFT, 40x14, (200 MPH), TYPE VII (NAVY)	MILITARY STANDARD MS26563(AS)
PROCUREMENT SPECIFICATION MIL-T-5041	SUPERSEDES	SHEET 1 OF 1

AMSC N/A
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This military standard is approved by NAVAL AIR SYSTEMS COMMAND, Department of the Navy and shall be used by that activity. All other military activities are required to employ this standard where suitable

APPROVED 15 DEC 1959
REVISED (B) 26 JUNE 1981
(C) 30 APRIL 86